

LOWER ALKYL CARBOXYLIC ACID MOIETIES FOR  
PREVENTING OXIDATIVE CORROSION OF METALS AND ORGANOLEPTIC  
STABILIZER FOR FOOD AND BEVERAGES

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ABSTRACT OF THE DISCLOSURE

Compositions and methods are disclosed for preventing the oxidative corrosion of metal surfaces by exposing a metal surface to an anti-corrosion agent characterized as a lower alkyl carboxylic acid or salts and/or other derivatives that conserve or embody the lower alkyl carboxylic acid moiety present in their molecular structures as an active anti-corrosion agent. The anti-corrosion agent may be used in combination with a material capable of forming a moisture retentive barrier over the metal surface. The compositions and methods of the invention provide a practical, non-toxic way of ensuring anti-corrosion protection for metals, or devices containing exposed metals, stored or operated in water or in the presence of water vapor. Exemplary, non-exhaustive uses of the invention include employing the composition as lubricant for the surface of a metal or as a pump oil or brake fluid; using the composition as an undercoating for painting, electroplating or electro-polishing procedures; and providing a protective coating for any metal or metal-containing machine or device, from automotive assembly plant metal press machines to electronic circuit boards.

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